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JUL 12 1971

**CLASSIFICATION AND CORRELATION  
OF  
THE SOILS OF**

**BOONE COUNTY  
INDIANA**

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**JUNE 1971**

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**U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
MIDWEST REGIONAL TECHNICAL SERVICE CENTER  
LINCOLN, NEBRASKA**

UNITED STATES DEPARTMENT OF AGRICULTURE  
Soil Conservation Service  
Midwest Regional Technical Service Center  
Lincoln, Nebraska 68508

Classification and Correlation  
of the Soils of  
Boone County, Indiana

This correlation was prepared by R. I. Turner in conference with K. H. Langlois, R. I. Dideriksen, D. R. Ruesch and D. P. Franzmeier during the week of March 1-4, 1971. The final correlation is based on first draft of the soil survey manuscript, field correlation, correlation samples, some laboratory data and notes obtained during the final field review June 1-5, 1970. This correlation was later reviewed by members of the Indiana Soil Conservation Service Staff and personnel from the Indiana Experiment Station.

Symbol	Field Name	Manuscript Map Symbol*	Approved Name
108 108-A-0	Washtenaw silt loam	Br	) Brookston silt loam, ) overwash
148 3148 3148-A-0	Brookston silt loam Brookston silty clay loam	Bs	) Brookston silty clay loam ) )
142-A-1 142-A-2 142-B-1 142-B-2 143-A-1 143-A-2	Crosby silt loam  Celina silt loam	CrA	) Crosby silt loam, ) 0 to 3 percent ) ) ) )
143-B-1 143-B-2	Celina silt loam	CsB2	) Crosby-Miami silt loam, ) 2 to 6 percent slopes, ) eroded
371-A-1 372-A-1 372-A-2 372-B-1 372-B-2 373-A-1 373-B-1 373-B-2	Delmar silt loam Fincastle silt loam  Xenia silt loam	FcA	) Fincastle silt loam, ) 0 to 3 percent slopes ) ) ) ) ) )
335-A-1 5335-A-1 6335-A-1 6335-A-2	Fox silt loam Fox loam Fox fine sandy loam	FsA	) Fox silt loam, ) 0 to 2 percent slopes ) )

\* Each soil symbol consists of 2 or 3 letters: for example, Bs, CrA, or FcA. If slope is given in the soil name, the third letter, A, B, C, D, E, or F indicates the class of slope. Symbols without a slope letter are those of nearly level soils. A final number 2 or 3 in the symbol indicates that the soil is eroded or severely eroded respectively.

Symbol	Field Name	Manuscript Map Symbol	Approved Name
145-B-2	Fox silt loam, kame phase	FsB2	) Fox silt loam,
335-B-1	Fox silt loam		) 2 to 6 percent slopes,
335-B-2			) eroded
335-B-3			) (Add one standard severe
6335-B-2	Fox fine sandy loam		) erosion spot symbol to each
9335-B-1	Fox gravelly loam		) delineation or each 5 acres
9335-B-2			) whichever is smaller of
			) 335-B-2, 335-B-3, 6335-B-2
			) and 9335-B-2.)
145-C-2	Fox silt loam, kame phase	FsC2	) Fox silt loam,
335-C-2	Fox silt loam		) 6 to 12 percent slopes,
335-D-2			) eroded
335-C-3	Fox clay loam		) (Add one standard severe
335-D-3			) erosion spot symbol to
445-C-2	Ockley silt loam		) each delineation or each
445-D-2			) 5 acres whichever is
445-C-3	Ockley clay loam		) smaller of 335-C-3
6335-C-2	Fox fine sandy loam		) 6335-C-3 and 335-D-3.)
6335-C-3			)
9335-D-1	Fox gravelly loam		)
13	Eel silt loam	Gn	) Genesee silt loam
13-A-0			)
14	Genesee silt loam		)
14-A-0			)
5013	Eel loam		)
5014	Genesee loam		)
6014	Genesee fine sandy loam		)
6014-A-0			)
146-F-1	Hennepin silt loam	HeF	) Hennepin loam,
146-F-2			) 25 to 50 percent slopes
146-G-1			)
3488	Mahalasville silty clay loam	Ma	) Mahalasville silty clay
3489	Needham silty clay loam		) loam
144-A-1	Miami silt loam	MmA	) Miami silt loam,
184-A-1	Kendallville silt loam		) 0 to 2 percent slopes
374-A-1	Russell silt loam		)
144-B-1	Miami silt loam	MmB2	) Miami silt loam,
144-B-2			) 2 to 6 percent slopes,
184-B-1	Kendallville silt loam		) eroded
184-B-2			)
374-B-2	Russell silt loam		)

Symbol	Field Name	Manuscript Map Symbol	Approved Name
144-C-1	Miami silt loam	MmC2	) Miami silt loam,
144-C-2			) 6 to 12 percent slopes,
184-C-2	Kendallville silt loam		) eroded
374-C-2	Russell silt loam		)
144-D-1	Miami silt loam	MmD2	) Miami silt loam,
144-D-2			) 12 to 18 percent slopes,
			) eroded
144-E-1	Miami silt loam	MmE2	) Miami silt loam,
144-E-2			) 18 to 25 percent slopes,
144-E-3			) eroded
144-F-2			) (Add one standard severe
144-F-3			) erosion spot symbol to
146-E-1	Hennepin silt loam		) each delineation or each
			) 5 acres whichever is
			) smaller of 144-E-3 and
			) 144-F-3.)
144-B-3	Miami clay loam	MsB3	) Miami clay loam,
374-B-3	Russell clay loam		) 2 to 6 percent slopes,
			) severely eroded
144-C-3	Miami clay loam	MsC3	) Miami clay loam,
			) 6 to 12 percent slopes,
			) severely eroded
144-D-3	Miami clay loam	MsD3	) Miami clay loam,
144-D-4			) 12 to 18 percent slopes,
146-D-3	Hennepin clay loam		) severely eroded
445-A-1	Ockley silt loam	OcA	) Ockley silt loam,
445-A-2			) 0 to 2 percent slopes
484-A-1	Martinsville silt loam		)
445-B-1	Ockley silt loam	OcB2	) Ockley silt loam,
445-B-2			) 2 to 6 percent slopes,
445-B-3	Ockley clay loam		) eroded
484-B-2	Martinsville silt loam		)
5445-B-2	Ockley loam		)
768	Ragsdale silt loam	Ra	) Ragsdale silty clay loam
3149	Kokomo silty clay loam		)
3768	Ragsdale silty clay loam		)
762-A-1	Reesville silt loam	Re	Reesville silt loam

Symbol	Field Name	Manuscript Map Symbol	Approved Name
12	Shoals silt loam	Sh	) Shoals silt loam
12-A-0			)
5012	Shoals loam		)
332-A-1	Homer silt loam	St	) Sleeth silt loam
442-A-1	Sleeth silt loam		)
5332-A-1	Homer loam		)
18	Sloan silt loam	Sx	) Sloan silt loam
18-A-0			)
3018	Sloan silty clay loam		)
338	Sebewa silt loam	We	) Westland silty clay loam
3338	Sebewa silty clay loam		)
3448	Westland silty clay loam		)
3449	Abington silty clay loam		)
482-A-1	Whitaker silt loam	Wh	) Whitaker silt loam
482-B-2			)

Series established:

None

Series made inactive or dropped:

None

Instructions on map compilation:

No other published soil survey joins Boone County.

Maps were joined with those of Hendricks County which were recently completed.

Roads should be shown as indicated on county map included with the legend and field sheets.

Borrow pits are of minor acreage and will not be shown as a mapping unit and the acreage will not appear in the acreage table. They will be shown on the published map by a spot symbol as suggested in "Guide for Soil Map Comilation" USDA 1970.

Gravel pits are of minor acreage and will not be shown as a mapping unit and the acreage will not appear in the acreage table. They will be shown on the published map by a spot symbol as suggested in "Guide for Soil Map Comilation" USDA 1970.

The following special and spot symbols appear on the field sheets. The agreed-to disposition in regards to the published soil survey is shown in the right hand column. Either these symbols or some other standard approved symbol should be used on the published map.

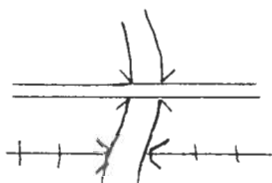
<u>Description</u>	<u>Field Sheet symbol</u>	<u>Correlation symbol</u>
<u>Highways and Roads</u>		
Divided		
Proposed (divided)		<u>Under construction</u> (Use if not completed)
Good Motor		
Poor motor or private		
<u>Interchanges</u>		
Existing		
Proposed		Conventional symbol will probably be constructed by time new photos are taken
<u>Road Designations</u>		
Interstate	I - 65	
U.S.	US- 52	
State	334	
County	W 161 ST	eliminate
<u>Railroads</u>		
Single track		
Double track		
Abandoned		

## Signs and Symbols-cont.:

Bridges

Road

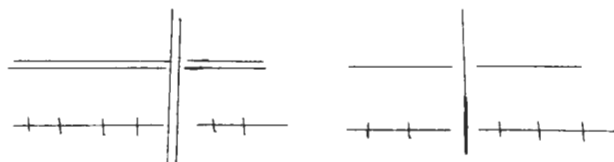
Railroad

eliminate bridge  
symbolOverpass, Underpass

(break lower features)

Road

Railroad



Pipeline

Powerline

eliminate

eliminate

Buildings

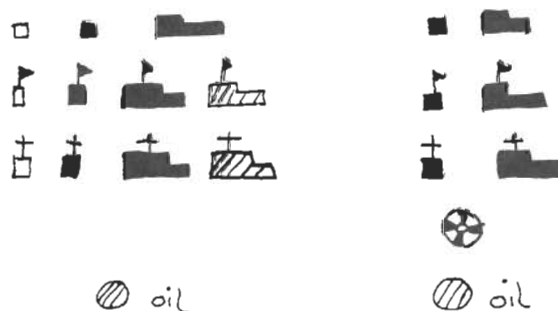
Farmstead, house

School

Church

Small airport

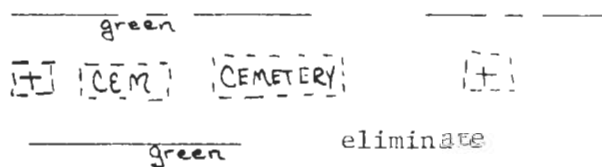
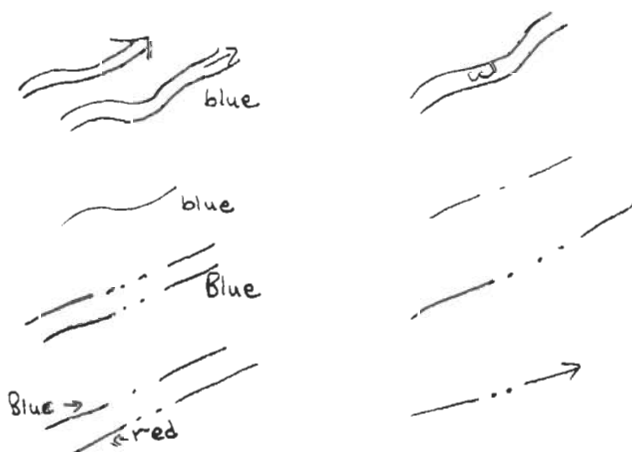
Storage tanks

Boundaries

County

Cemetery

Photo boundary

Drainage FeaturesStreams, double-line  
perennialStreams, single-line  
perennialIntermittent  
not crossable with  
tillage implementscrossable with tillage  
implements

## Signs and Symbols:

Drainage end or alluvial fan

Lakes, ponds, reservoirs

Perennial

Intermittent

Spring

Wet spot

Dams

Small

Rel

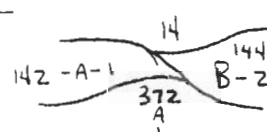
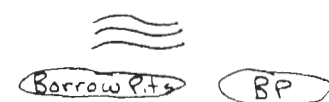
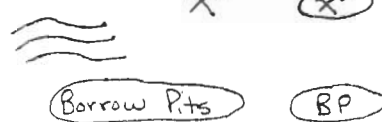
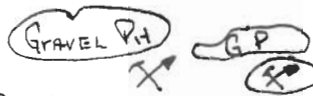
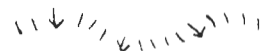
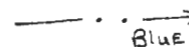
Escarpments

Gravel pits

Made land  
< 2 acres

Borrow pits

Levee

Special SymbolsSand spot  
< 2 acresSeverely eroded spot  
< 2 acresMuck  
< 2 acresSoil Area Boundaries and Symbols

Approved: June 14, 1971

J. E. McClelland, Principal Soil Correlator  
Midwest Region

Classification and Correlation  
of the Soils of  
Boone County, Indiana

by  
Robert I. Turner

1. BROOKSTON SERIES

The solum of much of the Brookston series is fine-loamy marginal to fine-silty or vice versa. Those areas which are fine-silty in the upper 20 inches of the argillic horizon are considered to be taxadjuncts to Brookston series. It is suggested that, when revised, the standard series description suggest that the Brooklyn is formed in silty sediments with moderate sand content and some glacial pebbles over loam glacial till.

2. CROSBY SERIES

The Crosier series (fine-loamy Crosby) was not used in this county because most of the soil delineations had fine textures in the upper part of the B horizons and thus were similar to the Crosby series. There are a few inclusions of fine-loamy soils which will be described in the description of the mapping unit. The A and B slopes were combined because the total slope range was small and differences in slope did not appear significant for the present types of use and management. The 143A mapping units were not significantly different so were combined with the Crosby mapping units.

3. FINCASTLE SERIES

The A and B slopes were combined because the total slope range was small and differences in slope did not appear significant for the present types of use and management

4. GENESEE SERIES

Mapping units of the Eel silt loam are combined because of lack of differences significant to use and management. The presence of mottles in some areas will be discussed in the description of the mapping unit as well as areas which are leached below depths of 40 inches.

# SOIL CLASSIFICATION

Boone County, Indiana

by  
Robert I. Turner

<u>Soil Series</u>	<u>Classification</u>
Brookston	Typic Argiaquolls, fine-loamy, mixed, mesic
Crosby	Aeric Ochraqualfs, fine, mixed, mesic
Fincastle	Aeric Ochraqualfs, fine-silty, mixed, mesic (Typic)
Fox	Typic HapludalFs, fine-loamy over sandy or sandy-skeletal, mixed, mesic
Genesee	Fluventic Eutrochrepts, fine-loamy, mixed, mesic
Hennepin	Typic Eutrochrepts, fine-loamy, mixed, mesic
Mahalasville	Typic Argiaquolls, fine-silty, mixed, mesic
Miami	Typic HapludalFs, fine-loamy, mixed, mesic
Ockley	Typic HapludalFs, fine-loamy, mixed, mesic
Ragsdale	Typic Argiaquolls, fine-silty, mixed, mesic
Reesville	Aeric Ochraqualfs, fine-silty, mixed, mesic (Aquic HapludalFs)
Shoals	Aeric Fluvaquents, fine-loamy, mixed, nonacid, mesic
Sleeth	Aeric Ochraqualfs, fine-loamy, mixed, mesic
Sloan	Fluvaquentic Haplaquolls, fine-loamy, mixed, mesic
Westland	Typic Argiaquolls, fine-loamy, mixed, mesic
Whitaker	Aeric Ochraqualfs, fine-loamy, mixed, mesic